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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/743,089	12/23/2003	Chosaku Noda	246957US2S	8113
22850	7590 09/22/2004		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			WILLIAMS, HOWARD L	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			2819	
			DATE MAILED: 09/22/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/743,089	NODA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Howard L. Williams	2819				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ☑ This	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 1,2,4 and 5 is/are allowed. 6) ☐ Claim(s) 3 and 6 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or						
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) $igtimes$ The drawing(s) filed on <u>28 May 2004</u> is/are: a)[\boxtimes The drawing(s) filed on <u>28 May 2004</u> is/are: a) \boxtimes accepted or b) \square objected to by the Examiner.					
Applicant may not request that any objection to the		· ' '				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive ı (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s) 1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>122303</u> .	5) Notice of Informal P	atent Application (PTO-152)				

Application/Control Number: 10/743,089

Your Reference: 246957US2S

Art Unit: 2819

The examiner acknowledges receipt of the information disclosure statement received 23

Dec. 2003. An initialed copy of the listing form should accompany this action.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of

application for patent in the United States.

Claims 3 and 6 are rejected under 35 U.S.C. 102(b) as anticipated by Noda et al. (US

20020118125 A1). Noda et al. discloses a 4 bit to 6 bit (i.e. m bit to n bit) conversion and table

with at least one end bit serving as an inversion bit. See figures 4 and 15.

Claims 1, 2, 4 and 5 are allowed over the art of record. The art of record was not seen

to show the first and second 4b-6b tables and inversion bit.

The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. Itoi (JP 06195887 A) discloses a rate 2/3 code conversion with a determinable end

bit for DSV reduction. Satomura US 5451943 A discloses an RLL code having (d, k, m, n) set

as (1,7,2,3) and including a resync code that has a determinable bit for DSV reduction. Ahn US

20010017594 A1 discloses a 4b-6b and other rate 2/3 codes having plural tables and no

merging bit. Kurokawa US 6737996 B2 and Hayami US 6300886 B1 disclose 4b-6b encoders

having plural tables. Moriyama US 5742243 A discloses a RLL code modification to reduce

DSV by selective inversion.

Any inquiry concerning this communication should be directed to Howard L. Williams at

telephone number 571.272.1815. The Patent and Trademark Office has a new central facsimile

number for application specific correspondence intended for entry, it is 703-872-9306.

9/17/04

Voice 571.272.1815

Howard L. Williams
Primary Examiner

Art Unit 2819